

Title (en)
BATTERY CRUSH PROTECTION SYSTEM

Title (de)
SYSTEM ZUM SCHUTZ DER BATTERIE VOR ZERDRÜCKEN

Title (fr)
SYSTÈME DE PROTECTION CONTRE UN ÉCRASEMENT DE BATTERIE

Publication
EP 3292574 B1 20221019 (EN)

Application
EP 16790205 A 20160506

Priority
• US 201562157880 P 20150506
• US 2016031343 W 20160506

Abstract (en)
[origin: WO2016179557A1] The following description relates to systems and methods for a vehicle battery. The vehicle battery may be a Lithium-ion battery, and may comprise a plurality of prismatic shaped battery cells, arranged and stacked to form a series of battery cell groups, and where protective casings or partitioned chambers of a protective casing enclose each battery cell group. The protective casings, or component segments of a protective casing, may be coupled to one another by a series of ridges and mating grooves. A protective casing may alternatively comprise of a monolithic extrusion comprising a plurality of partitioned chambers. The protective casing may be configured to absorb a threshold compressive force without resulting in deformation of the battery cell groups.

IPC 8 full level
H01M 10/0525 (2010.01); **H01M 10/052** (2010.01); **H01M 10/0585** (2010.01); **H01M 50/112** (2021.01); **H01M 50/20** (2021.01); **H01M 50/209** (2021.01); **H01M 50/224** (2021.01); **H01M 50/227** (2021.01); **H01M 50/229** (2021.01); **H01M 50/24** (2021.01); **H01M 50/242** (2021.01); **H01M 50/289** (2021.01)

CPC (source: CN EP KR US)
H01M 10/052 (2013.01 - CN EP KR US); **H01M 10/0525** (2013.01 - KR); **H01M 10/0585** (2013.01 - CN EP KR US); **H01M 50/20** (2021.01 - KR); **H01M 50/209** (2021.01 - CN EP KR US); **H01M 50/224** (2021.01 - CN EP KR US); **H01M 50/227** (2021.01 - CN EP KR US); **H01M 50/229** (2021.01 - CN EP KR US); **H01M 50/24** (2021.01 - EP KR US); **H01M 50/242** (2021.01 - CN EP KR US); **H01M 50/258** (2021.01 - CN); **H01M 50/262** (2021.01 - CN); **H01M 50/289** (2021.01 - CN EP KR US); **H01M 50/298** (2021.01 - CN); **H01M 2200/20** (2013.01 - KR); **H01M 2220/20** (2013.01 - CN EP US); **Y02E 60/10** (2013.01 - EP KR US); **Y02P 70/50** (2015.11 - KR)

Citation (examination)
EP 2569811 B1 20140730 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by
EP4329065A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2016179557 A1 20161110; CA 2983343 A1 20161110; CN 107667442 A 20180206; CN 113904047 A 20220107; CN 113904047 B 20240726; EP 3292574 A1 20180314; EP 3292574 A4 20181212; EP 3292574 B1 20221019; JP 2018521447 A 20180802; KR 102588049 B1 20231012; KR 20180003562 A 20180109; US 10938002 B2 20210302; US 2016329538 A1 20161110

DOCDB simple family (application)
US 2016031343 W 20160506; CA 2983343 A 20160506; CN 201680026300 A 20160506; CN 202111096097 A 20160506; EP 16790205 A 20160506; JP 2017556225 A 20160506; KR 20177033169 A 20160506; US 201615148964 A 20160506